

CLAIMS

1. An air filter comprising:
a filter housing with air flowing through said filter housing in a first direction;
a pleated filter support operatively connected to said filter housing said pleated filter support having support members define a pleated shape; and
a filter at least partially supported by said support members.
2. The air filter of Claim 1 wherein said pleated filter support comprises a wire mesh.
3. The air filter of Claim 1 wherein said pleated filter support comprises a plurality of posts.
4. The air filter of Claim 1 wherein said pleated filter support comprises a plurality of ridges spaced about equally apart.
5. The air filter of Claim 1 wherein said pleated filter support comprises at least a partially annular form.
6. The air filter of Claim 1 wherein said filter comprises a low restriction filter paper.
7. The air filter of Claim 1 wherein said filter and said pleated filter support are operatively connected by welding.
8. The air filter of Claim 1 wherein said filter and said pleated filter support are operatively connected by an adhesive.
9. The air filter of Claim 1 including a filter seal operatively connected to said filter and said pleated filter support.

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17. A method of manufacturing an air filter comprising the steps of:
arranging a plurality of support members into pleats; and
adhering a filter to the pleats.
19. The method of manufacturing the filter of Claim 18 wherein the plurality of support members comprise a wire mesh.
20. The method of manufacturing the filter of Claim 18 including the step of sealing the filter to the support.